	Application No.	Applicant(s)	
Notice of Allowahility	10/680,286	CERVIN ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Iqbal H. Chowdhury, Ph.D.	1652	
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	errespondence address elication. If not included will be mailed in due course.	THIS nitiative
1. This communication is responsive to 10/10/2007.			
2. The allowed claim(s) is/are 1,3 and 8.			
 3. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give 5. CORRECTED DRAWINGS (as "replacement sheets") mus (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the cash sheet. Replacement sheet(s) should be Required by the Requirement of the cash sheet. Replacement sheet(s) should be Requirement for the deposit attached Examiner's comment regarding REQUIREMENT is at	been received. been received in Application No cuments have been received in this r of this communication to file a reply of ENT of this application. itted. Note the attached EXAMINER's es reason(s) why the oath or declarate t be submitted. on's Patent Drawing Review (PTO-9 a Amendment / Comment or in the Or Amendment / Comment or in the Or step of BIOLOGICAL MATERIAL m	complying with the requirement of AMENDMENT or NOTICE Clion is deficient. 148) attached fice action of the back) of the grant of the submitted. Note the	ts DF
 Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO/SB/08),	 5. ☐ Notice of Informal Pa 6. ☑ Interview Summary (Paper No./Mail Date 7. ☑ Examiner's Amendm 8. ☑ Examiner's Statemen 9. ☐ Other 	PTO-413),	

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DETAILED ACTION

Application Status

Claims 1-8 are currently pending in the instant Office action.

In response to a previous Office action, a final action (mailed on April 10, 2007), applicants filed a response and an amendment on August 14, 2007, amending claims 1, 3 and 8, and canceling claim 2 is acknowledged. Claims 4-7 remain withdrawn.

Claims 1, 3 and 8 are under consideration and will be examined herein.

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 10/10/2007 has been entered.

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Christine M. Lhulier, the representative of the instant application on December 21, 2007.

Amend claims as follows:

Claim 1, part b), line 3, after "activity:" insert "wherein the up regulation is produced by a) by introducing additional copies of said gene into host cell followed by integration or b) by replacing native regulatory sequence with strong non-native promoter or altered native promoter".

Claim 1, part c), line 3, after "activity:" insert "wherein the up regulation is produced by a) by introducing additional copies of said gene into host cell followed by integration or b) by replacing native regulatory sequence with strong non-native promoter or altered native promoter".

Claim 8, part b), line 3, after "activity:" insert "wherein the up regulation is produced by a) by introducing additional copies of said gene into host cell followed by integration or b) by replacing native regulatory sequence with strong non-native promoter or altered native promoter".

Claim 8, part c), line 3, after "activity:" insert "wherein the up regulation is produced by a) by introducing additional copies of said gene into host cell followed by integration or b) by replacing native regulatory sequence with strong non-native promoter or altered native promoter".

Claim 8, part f), line 3, after "activity:" insert "wherein the up regulation is produced by a) by introducing additional copies of said gene into host cell followed by integration or b) by replacing native regulatory sequence with strong non-native promoter or altered native promoter".

Claim 8, part g), line 3, after "activity:" insert "wherein the up regulation is produced by a) by introducing additional copies of said gene into host cell followed by integration or b) by

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replacing native regulatory sequence with strong non-native promoter or altered native

promoter".

Claim 8, part h), line 3, after "activity:" insert "wherein the up regulation is produced by

a) by introducing additional copies of said gene into host cell followed by integration or b) by

replacing native regulatory sequence with strong non-native promoter or altered native

promoter".

Claims 4-7 are cancelled.

Allowable Subject Matter

Claims 1, 3 and 8 are allowed.

Reasons for Allowance

The following is an examiner's statement of reasons for allowance: The applicant has

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claimed an E. coli strain comprising a disrupted endogenous phosphoenolpyruvate-glucose

phosphotransferase system preventing expression of active PEP-glucose phosphotransferase

system proteins; b) an up regulated endogenous galP gene encoding active galactose-proton

symporter or galactose permease; c) an up regulated endogenous glk gene encoding active

glucokinase; and d) a down regulated endogenous gapA gene encoding active glyceraldehyde 3-

phosphate dehydrogenase, wherein the disrupted endogenous phosphoenolpyruvate-glucose

phosphotransferase system comprises one or more of: i) disrupted endogenous ptsH gene

preventing expression of active phosphocarrier protein; ii) disrupted endogenous ptsl gene

preventing expression of active phosphoenolpyruvate-protein phosphotransferase; and iii)

disrupted endogenous crr gene preventing expression of active glucose-specific IIA component,

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whereby said E. coli strain is capable of bioconverting a suitable carbon source to 1,3-propanediol. A standard search did not produce any prior art that suggests or teaches the claimed invention. The claimed invention is novel and nonobvious over the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Iqbal Chowdhury, Ph.D. whose telephone number is (571) 272-8137. The examiner can normally be reached on Monday-Friday from 9:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ponnathapura Achutamurthy, can be reached at (571) 272-0928.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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